FEBS Letters 338 (1994) 347–348

Contents to volume 338

Research Letters

Molecular cloning of a murine N-type calcium channel α1 subunit: Evidence for isoforms, brain distribution, and chromosomal localization (FEBS 13528) *T. Coppola, R. Waldmann, M. Borsotto, C. Heurteaux, G. Romey, M.-G. Mattéi, M. Lazdunski* 1

Distribution and characterization of immunoreactive adrenomedullin in human tissue and plasma (FEBS 13541) *Y. Ichiki, K. Kitamura, K. Kangawa, M. Kawamoto, H. Matsuo, T. Eto* 6

Solvent and thermal denaturation of the acidic compact state of apomyoglobin (FEBS 13552) *I. Sirangelo, E. Bismuto, G. Irace* 11

Cloning and functional expression of a tetrabenazine sensitive vesicular monoamine transporter from bovine chromaffin granules (FEBS 13558) *M. Howell, A. Shirvan, Y. Stern-Bach, S. Steiner-Mordoch, J.E. Strasser, G.E. Dean, S. Schuldiner* 16

A high-conductance voltage-dependent multistate Ca^{2+} channel found in sea urchin and mouse spermatozoa (FEBS 13507) *C. Beltrán, A. Darszon, P. Labarca, A. Liévano* 23

Alkalinization of acidic cellular compartments following cell swelling (FEBS 13481) *H. Völkl, G.L. Busch, D. Häussinger, F. Lang* 27

The interleukin-1-stimulated protein kinase that phosphorylates heat shock protein hsp27 is activated by MAP kinase (FEBS 13554) *T.A. Bird, H.D. Schule, P. Delaney, P. de Roos, P. Sleath, S.K. Dower, G.D. Virca* 31

The α-isoform of glycogen synthase kinase-3 from rabbit skeletal muscle is inactivated by p70 S6 kinase or MAP kinase-activated protein kinase-1 in vitro (FEBS 13556) *C. Sutherland, P. Cohen* 37

Tumor necrosis factor enhances low density lipoprotein oxidative modification by monocytes and endothelial cells (FEBS 13555) *C. Maziere, M. Auclair, J.-C. Maziere* 43

Induction of protein-tyrosine phosphatase LC-PTP by IL-2 in human T cells: LC-PTP is an early response gene (FEBS 13553) *M. Adachi, M. Sekiya, M. Ishino, H. Sasaki, Y. Hinoda, K. Imai, A. Yachi* 47

Expression, purification and characterization of a Kunitz-type protease inhibitor domain from human amyloid precursor protein homolog (FEBS 13559) *L.C. Petersen, S.E. Bjørn, F. Norris, K. Norris, C. Sprecher, D.C. Foster* 53

Characterisation of the F-actin binding domains of villin: classification of F-actin binding proteins into two groups according to their binding sites on actin (FEBS 13561) *B. Pope, M. Way, P.T. Matsudaira, A. Weeds* 58

Cloning of the classical guinea pig pancreatic lipase and comparison with the lipase related protein 2 (FEBS 13560) *F. Carrière, K. Thirstrup, S. Hjorth, E. Boel* 63

Isolation and characterization of multiple isoforms of the rat urokinase receptor in osteoblasts (FEBS 13563) *S.A. Rabbani, N. Rajwans, A. Achbarou, K.K. Murthy, D. Goltzman* 69

Calcium influx and protein kinase Cα activation mediate arachidonic acid mobilization by the human NK-2 receptor expressed in Chinese Hamster Ovary cells (FEBS 13564) *S. Arkinstall, I. Emergy, D. Church, A. Chollet, E. Kawashima* 75

Cell differentiation in vitro and the expression of Oct-2 protein and *oct*-2 RNA (FEBS 13521) *E.V. Pankratova, E.V. Sytina, A.G. Stepchenko* 81

Elongation factor-2 kinase: effective inhibition by the novel protein kinase inhibitor rottlerin and relative insensitivity towards staurosporine (FEBS 13562) *M. Gschwendt, W. Kittstein, F. Marks* 85

Structure and stability of pertussis toxin studied by in situ atomic force microscopy (FEBS 13570) *J. Yang, J. Mou, Z. Shao* 89

Mapping the binding surface of interleukin-8 complexed with an N-terminal fragment of the Type 1 human interleukin-8 receptor (FEBS 13571) *R.T. Clubb, J.G. Omichinski, G.M. Clore, A.M. Gronenborn* 93

Determination of the molecular mass of the native β-cell sulfonylurea receptor (FEBS 13576) *J.M. Skeer, P. Dégano, B. Coles, M. Potier, F.M. Ashcroft, S.J.H. Ashcroft* 98

Cloning and characterization of the cDNA encoding rice elongation factor 1β (FEBS 13577) *S. Matsumoto, Y. Terui, S. Xi, H. Taira, S.-i. Ejiri* 103

Cloning and functional expression of a cardiac inward rectifier K^+ channel (FEBS 13579) *K. Ishii, T. Yamagishi, N. Taira* 107

Minireview

The GRB2/Sem-5 adaptor protein (FEBS 13565) *J. Downward* 113

Hypothesis

The origin of human immunodeficiency virus type-1 *rev* gene: An evolutionary hypothesis (FEBS 13569) *S. Kubota, S. Oroszlan, M. Hatanaka* 118

Research Letters

Acidic pH enables caeruloplasmin to catalyse the modification of low-density lipoprotein (FEBS 13566) *D.J. Lamb, D.S. Leake* 122

The binding site of the transcriptional activator VirG from *Agrobacterium* comprises both conserved and specific non-conserved sequences (FEBS 13568) *T. Roitsch, S. Jin, E.W. Nester* 127

Structure of the large ribosomal subunit RNA of *Phytophthora megasperma*, and phylogeny of the oomycetes (FEBS 13578) *G. Van der Auwera, S. Chapelle, R. De Wachter* 133

Existence of nuclear-encoded 5S-rRNA in bovine mitochondria (FEBS 13581) *S. Yoshionari, T. Koike, T. Yokogawa, K. Nishikawa, T. Ueda, K.-i. Miura, K. Watanabe* 137

Vitamin K-antagonistic effect of plastoquinone and ubiquinone derivatives in vitro (FEBS 13582) *J. Saupe, J.E. Ronden, B.A.M. Soute, C. Vermeer* 143

Furin has the proalbumin substrate specificity and serpin inhibitory properties of an in situ hepatic convertase (FEBS 13580) *S.O. Brennan, K. Nakayama* 147

The prokaryotic thermophilic TF_1-ATPase is functionally compatible with the eukaryotic CF_o-part of the chloroplast ATP-synthase (FEBS 13584) *J.M. Galmiche, S. Pezennec, R. Zhao, G. Girault, E. Baeuerlein* 152

The major cold shock protein of *Bacillus subtilis* CspB binds with high affinity to the ATTGG- and CCAAT sequences in single stranded oligonucleotides (FEBS 13583) *P. Graumann, M.A. Marahiel* 157

Identification of glutamine and lysine residues in Alzheimer amyloid βA4 peptide responsible for transglutaminase-catalysed homopolymerization and cross-linking to α_2M receptor (FEBS 13585) *L.K. Rasmussen, E.S. Sørensen, T.E. Petersen, J. Gliemann, P.H. Jensen* 161

A novel gene delivery system using EGF receptor-mediated endocytosis (FEBS 13586) *J. Chen, S. Gamou, A. Takayanagi, N. Shimizu* 167

Cloning and expression of three isoforms of the human EP_3 prostanoid receptor (FEBS 13596) *M. Adam, Y. Boie, T.H. Rushmore, G. Müller, L. Bastien, K.T. McKee, K.M. Metters, M. Abramovitz* 170

Comparison of different ribozymes for efficient and specific cleavage of BCR/ABL related mRNAs (FEBS 13588) *W. Lange, M. Daskalakis, J. Finke, G. Dölken* 175

On the tertiary structure of the *Citrus ichangensis* satellite DNA (FEBS 13589) *T. Beridze, N. Tsirekidze, M.S. Turishcheva* 179

Specificity of protein interactions with highly related SRC homology (SH) domains of FGR and FYN protein–tyrosine kinases (FEBS 13591) *O.M. Rivero-Lezcano, K.C. Robbins* 183

Analysis of an insulin gene transcription control element Positive and negative regulation appears to be mediated by different element sequences (FEBS 13592) *R. Stein, E. Henderson, S.R. Cordle* 187

Different induction mechanisms of mRNA for inducible nitric oxide synthase in rat smooth muscle cells in culture and in aortic strips (FEBS 13595) *A. Sirsjö, P. Söderkvist, T. Sundqvist, M. Carlsson, M. Öst, A. Gidlöf* 191

Spectroscopic characterization of PS I core complexes from thermophilic *Synechococcus* sp.: Identical reoxidation kinetics of A_1^- before and after removal of the iron-sulfur-clusters F_A and F_B (FEBS 13594) *J. Lüneberg, P. Fromme, P. Jekow, E. Schlodder* 197

Light-dependent in vivo phosphorylation of an inhibitory subunit of cGMP-phosphodiesterase in frog rod photoreceptor outer segments (FEBS 13600) *F. Hayashi* 203

Effects of morphine on prolactin receptors in the rat brain (FEBS 13597) *Z. Lai, Q. Zhai, R. Yukhananov, C. Larsson, P. Roos, M.J. Kreek, F. Nyberg* 207

Differentiation of PC12 cells in response to a cAMP analogue is accompanied by sustained activation of mitogen-activated protein kinase: Comparison with the effects of insulin, growth factors and phorbol esters (FEBS 13604) *S.W. Young, M. Dickens, J.M. Tavaré* 212

Human μ opiate receptor: cDNA and genomic clones, pharmacologic characterization and chromosomal assignment (FEBS 13590) *J.-B. Wang, P.S. Johnson, A.M. Persico, A.L. Hawkins, C.A. Griffin, G.R. Uhl* 217

Enhancement of hydrogen peroxide-induced luminol-dependent chemiluminescence by neopterin depends on the presence of iron chelator complexes (FEBS 13607) *C. Murr, D. Fuchs, W. Gössler, A. Hausen, G. Reibnegger, E.R. Werner, G. Werner-Felmayer, H. Esterbauer, H. Wachter* 223

Structural implications for the role of the N terminus in the 'superactivation' of collagenases: A crystallographic study (FEBS 13605) *P. Reinemer, F. Grams, R. Huber, T. Kleine, S. Schnierer, M. Piper, H. Tschesche, W. Bode* 227

Changes in α_1-adrenoceptor coupling to Ca^{2+} channels during development in rat heart (FEBS 13617) *Q.-Y. Liu, E. Karpinski, P.K.T. Pang* 234

Minireviews

Receptor-mediated endocytosis of plasminogen activators and activator/inhibitor complexes (FEBS 13602) *P.A. Andreasen, L. Sottrup-Jensen, L. Kjøller, A. Nykjær, S.K. Moestrup, C.M. Petersen, J. Gliemann* 239

Protein dynamics (FEBS 13603) *O. Jardetzky, J.-F. Lefèvre* 246

Hypothesis

Sequence similarity of mammalian epoxide hydrolases to the bacterial haloalkane dehalogenase and other related proteins: Implication for the potential catalytic mechanism of enzymatic epoxide hydrolysis (FEBS 13587) *M. Arand, D.F. Grant, J.K. Beetham, T. Friedberg, F. Oesch, B.D. Hammock* 251

Research Letters

Molecular cloning and expression of a novel type V adenylyl cyclase from rabbit myocardium (FEBS 13608) *J. Wallach, M. Droste, F.W. Kluxen, T. Pfeuffer, R. Frank* 257

Pertussis toxin-catalyzed ADP-ribosylation of GTP-binding proteins with digoxigenin-conjugated NAD: Identification of the proteins in plasma membranes and nuclei (FEBS 13606) *Y. Takei, K. Takahashi, Y. Kanaho, T. Katada* 264

The atomic structure of Carnation Mottle Virus capsid protein (FEBS 13593) *E.Y. Morgunova, Z. Dauter, E. Fry, D.I. Stuart, V.Y. Stel'mashchuk, A.M. Mikhailov, K.S. Wilson, B.K. Vainshtein* 267

Enterocytic differentiation of the human Caco-2 cell line is correlated with down-regulation of fibronectin and laminin (FEBS 13609) *P. Levy, O. Loreal, A. Munier, Y. Yamada, J. Picard, G. Cherqui, B. Clement, J. Capeau* 272

Calcium influx blocks the skeletal muscle acetylcholine receptor α-subunit gene in vivo (FEBS 13610) *C.-F. Huang, J. Schmidt* 277

Effects of calcium ions on proteolytic processing of HIV-1 gp160 precursor and on cell fusion (FEBS 13612) *M. Moulard, L. Montagnier, E. Bahraoui* 281

Superoxide production by cytochrome b_{559}: Mechanism of cytosol-independent activation (FEBS 13611) *V. Koshkin, E. Pick* 285

Cloning of eggplant hypocotyl cDNAs encoding cytochromes P450 belonging to a novel family (CYP77) (FEBS 13614) *T. Toguri, K. Tokugawa* 290

Identification of mRNAs encoding two different soluble forms of the human interferon α-receptor (FEBS 13615) *C. Abramovich, E. Ratovitski, E. Lundgren, M. Revel* 295

Expression of α_2-macroglobulin receptor/low density lipoprotein receptor-related protein is increased in reactive and neoplastic glial cells (FEBS 13616) *M.B.S. Lopes, C.A. Bogaev, S.L. Gonias, S.R. VandenBerg* 301

Complete amino acid sequence of porcine adrenomedullin and cloning of cDNA encoding its precursor (FEBS 13620) *K. Kitamura, K. Kangawa, M. Kojima, Y. Ichiki, H. Matsuo, T. Eto* 306

Ubiquitin gene expression is increased in skeletal muscle of tumour-bearing rats (FEBS 13567) *M. Llovera, C. García-Martínez, N. Agell, M. Marzábal, F.J. López-Soriano, J.M. Argilés* 311

Antisense retinoic acid receptor γ-1 oligonucleotide enhances chondrogenesis of mouse limb mesenchymal cells in vitro (FEBS 13598) *J. Motoyama, K. Eto* 319

Antisense c-*myc* oligonucleotide promotes chondrogenesis and enhances RA responsiveness of mouse limb mesenchymal cells in vitro (FEBS 13599) *J. Motoyama, K. Eto* 323

Enhancement of inducible-type NO synthase gene transcription by protein synthesis inhibitors: Activation of an intracellular signal transduction pathway by low concentrations of cycloheximide (FEBS 13621) *S. Oguchi, A. Weisz, H. Esumi* 326

Interaction of protein ligands with receptor fragments: On the residues of curaremimetic toxins that recognize fragments 128–142 and 185–199 of the α-subunit of the nicotinic acetylcholine receptor (FEBS 13613) *M.-H. Fulachier, G. Mourier, J. Cotton, D. Servent, A. Ménez* 331

Differential expression of PKCα and PKCβ isozymes in $CD4^+$, $CD8^+$ and $CD4^+/CD8^+$ double positive human T cells (FEBS 13619) *N. Tarantino, P. Debré, M. Körner* 339

Author index to volume 338 343

Contents to volume 338 347